## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/549, 796 A
Source: TFWO
Date Processed by STIC: 9/1/2006

## ENTERED

### CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/549, 796 A	CRF Edit Date: $\frac{9/1/2006}{DA}$ Edited by:
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
<del></del>	Corrected the SEQ ID NO. Sequence numbers of	edited were:
	Inserted or corrected a nucleic number at the en NO's edited:	nd of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	rs, specifically:
	Moved responses to same line as heading/numer	ic identifier, specifically:
	Other:	



**IFWO** 

RAW SEQUENCE LISTING DATE: 09/01/2006
PATENT APPLICATION: US/10/549,796A TIME: 12:54:50

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\09012006\J549796A.raw

```
3 <110> APPLICANT: Enobia Pharma Inc.
           Guy Boileau
              Adriana Karaoglanovic Carmona
      5
             Marcelo Campos
      6
      7
             Maria Aparecida Juliano
              Luiz Juliano
     10 <120> TITLE OF INVENTION: PHEX SUBSTRATES AND METHODS USING SAME
W--> 11 <130> FILE REFERENCE: 12987.54
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/549,796A
C--> 14 <141> SURRENT FILING DATE: 2005-09-19
                                                       to a talk the same state and the
     16 <160> NUMBER OF SEQ ID NOS: 32
     18 <170> SOFTWARE: PatentIn version 3.2
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 7
     22 <212> TYPE: PRT
     23 <213> ORGANISM: Artificial
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: Synthetic Construct
     28 <400> SEQUENCE: 1
     30 Ala Trp Leu Asp Ser Gly Val
     34 <210> SEQ ID NO: 2
     35 <211> LENGTH: 4
     36 <212> TYPE: PRT
     37 <213> ORGANISM: Artificial
     39 <220> FEATURE:
     40 <223> OTHER INFORMATION: Synthetic Construct
     42 <400> SEQUENCE: 2
     44 Phe Ser Asp Tyr
     45 1
     48 <210> SEQ ID NO: 3
     49 <211> LENGTH: 6
     50 <212> TYPE: PRT
     51 <213> ORGANISM: Artificial
     53 <220> FEATURE:
     54 <223> OTHER INFORMATION: Synthetic Construct
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     58 Gly Phe Ser Asp Tyr Lys
     59 1
     62 <210> SEQ ID NO: 4
     63 <211> LENGTH: 6
     64 <212> TYPE: PRT
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65 <213> ORGANISM: Artificial

DATE: 09/01/2006

TIME: 12:54:50

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                                                  Output Set: N:\CRF4\09012006\J549796A.raw
                67 <220> FEATURE:
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                71 <220> FEATURE:
                72 <221> NAME/KEY: misc feature
                73 <222> LOCATION: (2)..(5)
                74 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except cysteine
                77 <400> SEQUENCE: 4
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··· W--> 79 Gly Xaa Xaa Xaa Xaa Lys
               80 1
                83 <210> SEO ID NO: 5
                84 <211> LENGTH: 6
                85 <212> TYPE: PRT
                86 <213> ORGANISM: Artificial
                88 <220> FEATURE:
                89 <223> OTHER INFORMATION: Synthetic Construct
                92 <220> FEATURE:
                93 <221> NAME/KEY: MISC FEATURE
                94 <222> LOCATION: (2)..(3)
 95 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except and the second except and the
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                                   aspartate and glutamate
                96
                98 <220> FEATURE:
                99 <221> NAME/KEY: MISC FEATURE
                100 <222> LOCATION: (5)..(5)
                101 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
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                103 <400> SEQUENCE: 5
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                109 <210> SEQ ID NO: 6
                110 <211> LENGTH: 6
                111 <212> TYPE: PRT
                112 <213> ORGANISM: Artificial
                114 <220> FEATURE:
                115 <223> OTHER INFORMATION: Synthetic Construct
                118 <220> FEATURE:
                119 <221> NAME/KEY: MISC_FEATURE
                120 <222> LOCATION: (2)..(2)
                121 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
     cysteine,
                                     aspartate and glutamate
                122
                124 <220> FEATURE:
                125 <221> NAME/KEY: MISC FEATURE
                126 <222> LOCATION: (3)..(3)
                127 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
     cysteine
                129 <220> FEATURE:
                130 <221> NAME/KEY: MISC FEATURE
                131 <222> LOCATION: (5)..(5)
                132 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
     cysteine,
                                     aspartate and glutamate
                133
                135 <400> SEQUENCE: 6
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,796A

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W--> 137 Gly Xaa Xaa Asp Xaa Lys

DATE: 09/01/2006

TIME: 12:54:50

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Input Set : N:\DA\pto.da.txt
                     Output Set: N:\CRF4\09012006\J549796A.raw
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     142 <211> LENGTH: 6
     143 <212> TYPE: PRT
     144 <213> ORGANISM: Artificial
     146 <220> FEATURE:
     147 <223> OTHER INFORMATION: Synthetic Construct
     150 <220> FEATURE:
     151 <221> NAME/KEY: MISC FEATURE
     152 <222> LOCATION: (2)..(2)
     153 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
cysteine
     155 <220> FEATURE:
     156 <221> NAME/KEY: MISC FEATURE
     157 <222> LOCATION: (3)..(3)
     158 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
cysteine,
               aspartate and glutamate
     159
    .161 <220> FEATURE:
     162 <221> NAME/KEY: MISC FEATURE
     163 <222> LOCATION: (5)..(5)
     164 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid except
cysteine,
               aspartate and glutamate
     165
     167 <400> SEQUENCE: 7
W--> 169 Gly Xaa Xaa Asp Xaa Lys
     170 1
     173 <210> SEQ ID NO: 8
     174 <211> LENGTH: 4
     175 <212> TYPE: PRT
     176 <213> ORGANISM: Artificial
     178 <220> FEATURE:
     179 <223> OTHER INFORMATION: Synthetic Construct
     181 <400> SEQUENCE: 8
     183 Asp Arg Arg Leu
     184 1
     187 <210> SEQ ID NO: 9
     188 <211> LENGTH: 4
     189 <212> TYPE: PRT
     190 <213> ORGANISM: Artificial
     192 <220> FEATURE:
     193 <223> OTHER INFORMATION: Synthetic Construct
     195 <400> SEQUENCE: 9
     197 Arg His Thr Arg
     198 1
     201 <210> SEQ ID NO: 10
     202 <211> LENGTH: 6
     203 <212> TYPE: PRT
     204 <213> ORGANISM: Artificial
     206 <220> FEATURE:
     207 <223> OTHER INFORMATION: Synthetic Construct
     210 <220> FEATURE:
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,796A

DATE: 09/01/2006

TIME: 12:54:50

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Input Set : N:\DA\pto.da.txt
                     Output Set: N:\CRF4\09012006\J549796A.raw
     211 <221> NAME/KEY: misc_feature
     212 <222> LOCATION: (2)..(3)
     213 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     215 <220> FEATURE:
     216 <221> NAME/KEY: misc feature
     217 <222> LOCATION: (5)..(5)
     218 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     220 <400> SEQUENCE: 10
W--> 222 Gly Xaa Xaa Asp Xaa Lys
     223 1
     226 <210> SEO ID NO: 11
     227 <211> LENGTH: 6
     228 <212> TYPE: PRT
     229 <213> ORGANISM: Artificial
     231 <220> FEATURE:
     232 <223> OTHER INFORMATION: Synthetic Construct
     235 <220> FEATURE:
     236 <221> NAME/KEY: misc_feature
   _237 <222> LOCATION: (2)..(3)
  238~<223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     240 <220> FEATURE:
     241 <221> NAME/KEY: misc_feature
     242 <222> LOCATION: (5)..(5)
     243 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     245 <400> SEQUENCE: 11
W--> 247 Gly Xaa Xaa Glu Xaa Lys
     248 1
     251 <210> SEQ ID NO: 12
     252 <211> LENGTH: 6
     253 <212> TYPE: PRT
     254 <213> ORGANISM: Artificial
     256 <220> FEATURE:
     257 <223> OTHER INFORMATION: Synthetic Construct
     259 <400> SEQUENCE: 12
     261 Gly Phe Ser Glu Tyr Lys
     262 1
     265 <210> SEQ ID NO: 13
     266 <211> LENGTH: 6
     267 <212> TYPE: PRT
     268 <213> ORGANISM: Artificial
     270 <220> FEATURE:
     271 <223> OTHER INFORMATION: Synthetic Construct
     273 <400> SEQUENCE: 13
     275 Gly Phe Ser Asp Tyr Gln
     276 1
     279 <210> SEQ ID NO: 14
     280 <211> LENGTH: 9
     281 <212> TYPE: PRT
     282 <213> ORGANISM: Artificial
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/549,796A

RAW SEQUENCE LISTING DATE: 09/01/2006
PATENT APPLICATION: US/10/549,796A TIME: 12:54:50

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\09012006\J549796A.raw

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285 <223> OTHER INFORMATION: Synthetic Construct
287 <400> SEQUENCE: 14
289 Asp His Leu Ser Asp Thr Ser Thr Gln
290 1
293 <210> SEQ ID NO: 15
294 <211> LENGTH: 7
295 <212> TYPE: PRT
296 <213> ORGANISM: Artificial
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Synthetic Construct
301 <400> SEQUENCE: 15
303 Leu Glu Leu Asp Ser Arg Gln
304 1
307 <210> SEQ ID NO: 16
308 <211> LENGTH: 8
309 <212> TYPE: PRT
310 <213> ORGANISM: Artificial
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Synthetic Construct
315 <400> SEQUENCE: 16
317 Ala Trp Leu Asp Ser Gly Val Gln
318 1
321 <210> SEQ ID NO: 17
322 <211> LENGTH: 14
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Synthetic Construct
329 <400> SEQUENCE: 17
331 Arg Arg His Thr Arg Ser Ala Glu Asp Asp Ser Glu Arg Gln
332 1
335 <210> SEQ ID NO: 18
336 <211> LENGTH: 8
337 <212> TYPE: PRT
338 <213> ORGANISM: Artificial
340 <220> FEATURE:
341 <223> OTHER INFORMATION: Synthetic Construct
343 <400> SEQUENCE: 18
345 Leu Met Met Asp Phe Arg Gly Gln
346 1
349 <210> SEQ ID NO: 19
350 <211> LENGTH: 8
351 <212> TYPE: PRT
352 <213> ORGANISM: Artificial
354 <220> FEATURE:
355 <223> OTHER INFORMATION: Synthetic Construct
357 <400> SEQUENCE: 19
359 Ser Ala Glu Asp Asn Ser Pro Gln
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/549,796A

DATE: 09/01/2006 TIME: 12:54:51

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\09012006\J549796A.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

all of

Seq#:4; Xaa Pos. 2/3/4/,5 Seq#:5; Xaa Pos. 2/3/5/ Seq#:6; Xaa Pos. 2/3/5/ Seq#:7; Xaa Pos. 2/3/5/ Seq#:10; Xaa Pos. 2/3/5/ Seq#:11; Xaa Pos. 2/3/5/

#### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27 Seq#:28,29,30,31,32

#### VERIFICATION SUMMARY

PATENT APPLICATION: US/10/549,796A

DATE: 09/01/2006 TIME: 12:54:51

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Input Set : N:\DA\pto.da.txt

L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

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Output Set: N:\CRF4\09012006\J549796A.raw

L:11 M:283 W: Missing Blank Line separator, <130> field identifier
L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

# Raw Sequence Listing before editing, for reference only



**IFWO** 

RAW SEQUENCE LISTING DATE: 08/31/2006
PATENT APPLICATION: US/10/549,796A TIME: 09:00:49

Input Set : F:\Sequence Listing.txt

Output Set: N:\CRF4\08312006\J549796A.raw

```
3 <110> APPLICANT: Enobia Pharma Inc.
4 Guy Boileau
5 Adriana Karaoglanovic Carmona
6 Marcelo Campos
7 Maria Aparecida Juliano
8 Luiz Juliano
10 <120> TITLE OF INVENTION: PHEX SUBSTRATES AND METHODS USING SAME
W--> 11 <130> FILE REFERENCE: 12987.54
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/549,796A
C--> 14 <141> CURRENT FILING DATE: 2005-09-19
16 <160> NUMBER OF SEQ ID NOS: 32
18 <170> SOFTWARE: PatentIn version 3.2
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#### ERRORED SEQUENCES

531 <210> SEQ ID NO: 32
532 <211> LENGTH: 6
533 <212> TYPE: PRT
534 <213> ORGANISM: Artificial
536 <220> FEATURE:
537 <223> OTHER INFORMATION: Synthetic Construct
539 <400> SEQUENCE: 32
541 Gly Phe Arg Asp Trp Lys
542 1
5
E--> 545 2
E--> 548 2

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/31/2006
PATENT APPLICATION: US/10/549,796A TIME: 09:00:50

Input Set : F:\Sequence Listing.txt

Output Set: N:\CRF4\08312006\J549796A.raw

#### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27 Seq#:28,29,30,31,32

#### VERIFICATION SUMMARY

DATE: 08/31/2006 TIME: 09:00:50

PATENT APPLICATION: US/10/549,796A

Input Set : F:\Sequence Listing.txt

Output Set: N:\CRF4\08312006\J549796A.raw

L:11 M:283 W: Missing Blank Line separator, <130> field identifier

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

 $L:105 \ M:341 \ W:$  (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

L:545 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:32

M:332 Repeated in SeqNo=32